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Signature

		NON PATENT LITERATURE DOCUMENTS			
Examiner Initials* Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-iss number(s), publisher, city and/or country where published.					
		T.S. RAPPAPORT, "Wireless Communications: Principles & Practice," 1999, Prentice Hall, Upper Saddle River, New Jersey, USA.			
		J. C. LIBERTI AND T. S. RAPPAPORT, "Smart Antennas for Wireless Communications: IS-95 and Third-Generation CDMA," 1999, ISBN: 0-13-719287-8, Prentice Hall, New Jersey, USA			
		IEEE 802.11 – wireless LAN (local area network)			
		BENJAMIN RULF, GREGORY A. ROBERTSHAW (CONTRIBUTOR), "Understanding Antennas for Radar Communications and Avionics (Van Nostrand Reinhold Electrical/Computer Science and Engineering Series)," May 1987, 335 pages, ISBN: 0442277725, Kluwer Academic Publishers			
		LAL C. GODARA, "Applications of Antenna Arrays to Mobile Communications, Part I: Performance Improvement, Feasibility, and System Considerations," JULY 1997, pp. 1031-1060, PROCEEDINGS OF THE IEEE, VOL. 85, NO. 7,			
		LAL C. GODARA, "Applications of Antenna Arrays to Mobile Communications, Part II: Beam-Forming and Direction-of-Arrival Considerations," AUGUST 1997, pp. 1195-1245, PROCEEDINGS OF THE IEEE, VOL. 85, NO. 8,			
		MARTIN COOPER AND MARC GOLDBURG, "Intelligent Antennas: Spatial Division Multiple Access," 1996, pp. 999-1002, 1996 ANNUAL REVIEW OF COMMUNICATIONS,			
		M. COOPER, "Antennas get Smart," July 2003, pp. 48-55, Scientific American,			
		BERTONI, H.L., "Radio Propagation for Modern Wireless Systems", 2000, ISBN 0130263737, Prentice Hall			
		IEEE Std 802.16 -2001, Part 16: Air Interface for Fixed Broadband Wireless Access Systems	·		
		IEEE Std 802.15.1-2002, Part 15.1: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for Wireless Personal Area Networks (WPANs)			
Examiner	1	Date			

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<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Art Unit				
Examiner Name		· · · · · · · · · · · · · · · · · · ·		
Attorney Docket Number	OFE 1855			

			U. S. PATENT	DOCUMENTS		
Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (if known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear	
		US- 6,486,832	11/26/2002	Abramov, et al.		
		US- 6,278,405	08/21/2001	Ha, et al.		
		<sup>US-</sup> 6,070,071	05/30/2000	Chavez, et al.		
		US- 6,078,823	06/20/2000	Chavez, et al.		
		<sup>US-</sup> 6,449,469	09/10/2002	Miyahara		
	<u> </u>	<sup>US-</sup> 5,969,689	10/19/1999	Martek, et al.		
		<sup>US-</sup> 6,683,567 B2	01/27/2004	De Champlain, et al.		
		US- 6,426,814 B1	07/30/2002	Berger, et al.		
		<sup>US-</sup> 6,243,427 B1	06/05/2001	Stockton, et al.		
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FOREIGN PATENT DOCUMENTS							
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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> ( <i>if known</i> )	MM-DD-YYYY		Or Relevant Figures Appear	T⁵	

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